LW29A13W_40A13W_en 4/23/03 10:06 AM Page 1

SAMSUNG

LCD TV

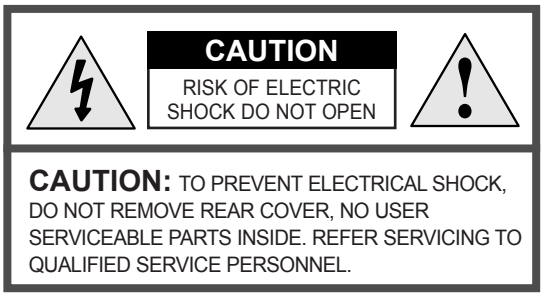
LW29A13W
LW40A13W

Owner's Instructions

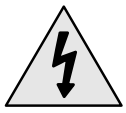
Before operating the unit,
please read this manual thoroughly,
and retain it for future reference.

ON-SCREEN MENUS
PC DISPLAY
PICTURE IN PICTURE (PIP)
TELETEXT

Caution


CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
CAUTION: TO PREVENT ELECTRICAL SHOCK, DO NOT REMOVE REAR COVER, NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash and arrow head within the triangle is a warning sign alerting you of "dangerous voltage" inside the product.



The exclamation point within the triangle is a warning sign alerting you of important instructions accompanying the product.

WARNING: TO PREVENT DAMAGE WHICH MAY RESULT IN FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

☛ ***The main voltage is indicated on the rear of your set and the frequency is 50 or 60 Hz.***

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Plug and Play

The adoption of the new ***VESA®*** Plug and Play solution eliminates complicated and time consuming setup. It allows you to install your set in a Plug and Play compatible system without the usual hassles and confusion. Your computer system can easily identify and configure itself for use with your set. Your set automatically tells the computer system its **E**xtended **D**isplay **I**dentification **D**ata (EDID) using **D**isplay **D**ata **C**hannel (DDC) protocols so the computer system can automatically configure itself to use your set.

PowerSaver

This set is **EPA Energy Star®** compliant and **NUTEK** compliant when used with a computer equipped with **VESA DPMS** functionality. For energy conservation, turn your set Off when you are not using it or when leaving it unattended for long periods.

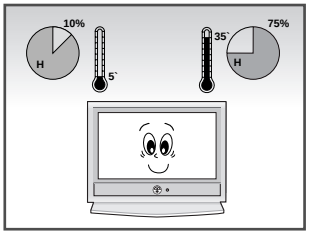
European Notice (Europe Only)

Products with the CE Marking comply with both the EMC Directive (89/336/EEC), (92/31/EEC), (93/68/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms:

- EN55022:1998+A1:2000 - Radio Frequency Interference
- EN55024:1998 - Electromagnetic Immunity
- EN55013:1990+A12:1994+A13:1996+A14:1999 - Radio Frequency Interference
- EN55020:1994+A11:1996+A12/A13/A14:1999 - Electromagnetic Immunity
- EN61000-3-2:1995+A1/A2:1998 - Power Line Harmonics
- EN61000-3-3:1995 - Voltage Fluctuations
- EN60065:1997 or EN60095:1998 - Product Safety

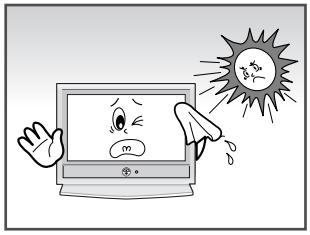
Safety Instructions

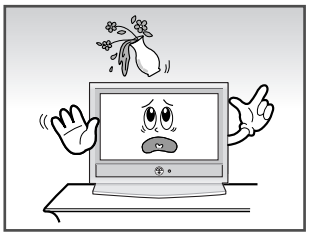
These illustrations represent precautions concerning your set.



◀ Do NOT expose your set to extreme temperature or humidity conditions.

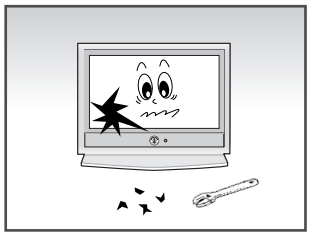
Do NOT expose your set to ▶ direct sunlight.

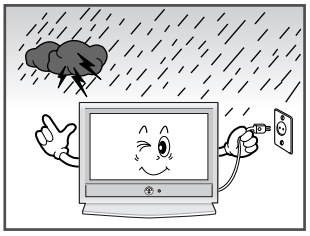




◀ Do NOT expose your set to any liquids.

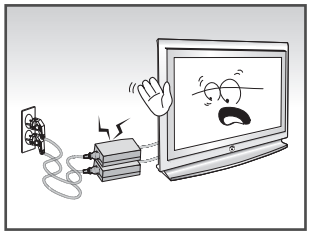
If your set is broken, ▶ do not try to repair it yourself. Contact qualified service personnel.





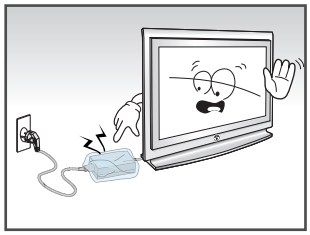
◀ During storm conditions (especially when there is lightning) unplug your set from the mains socket and aerial.

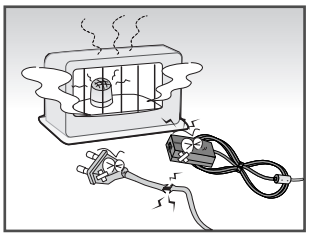
Keep all power adaptors apart. ▶ Possible fire hazard.



◀ Always keep the power adaptor in a well-ventilated area.

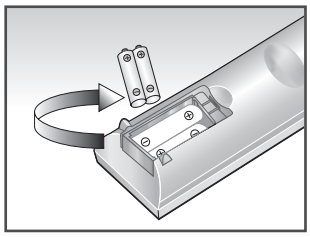
Remove and discard the plastic ▶ cover from the power adaptor before use. Possible fire hazard.





◀ Keep the power adaptor away from any other heater. Possible fire hazard.

If the remote control is not used for a long ▶ period of time, remove the batteries and store it in a cool, dry place.



THIS DEVICE IS NOT FOR USE IN INDUSTRIAL ENVIRONMENTS

Please use a soft and dry cloth (not containing volatile matter) when you clean the TV.

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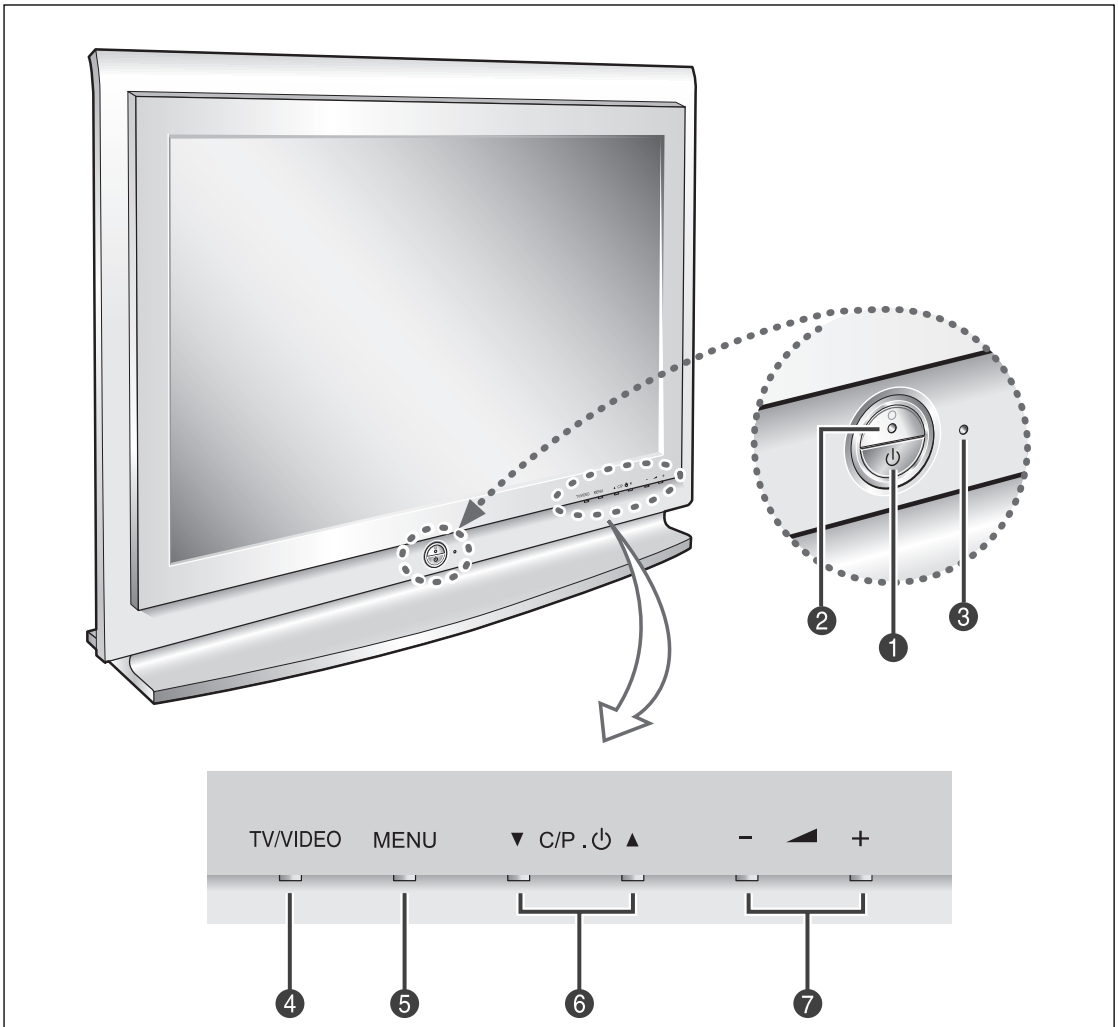
Symbols

Press

Important

Note

Viewing the Control Panel



❶ ⏻ **(Power)**
Turns ON/OFF your set.

❷ **Power Indicator**

❸ **Remote Control Sensor**

❹ **TV/VIDEO**
Displays a menu of all of the available input sources(TV, VIDEO, S-VIDEO, EXT1, EXT2, PC Analog, PC Digital).

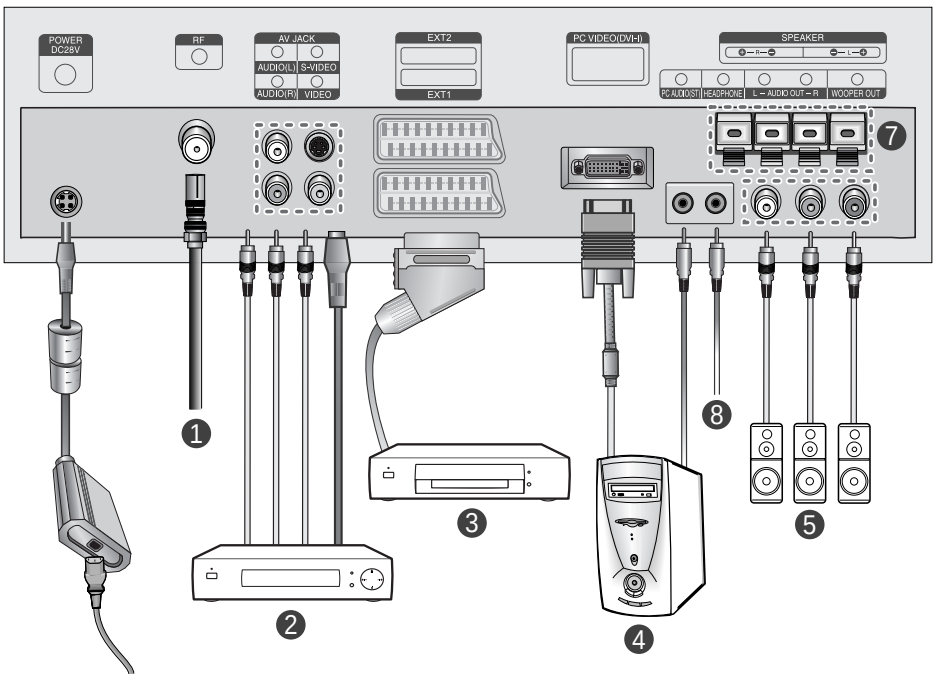
❺ **MENU**
Opens the OSD and selects the function.

❻ **▼ C/P. ⏻ ▲**
Moves the selector up or down on the OSD.
Increases or decreases the channel number.
Switches on the TV when it is in Standby mode.

❼ **– ◢ +**
Moves the selector left or right on the OSD.
Increases or decreases the level of audio volume and the values of the selected function.

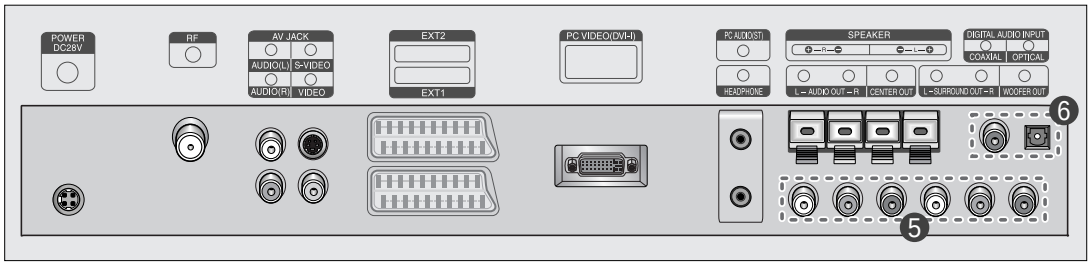
Viewing the Connection Panel

LW29A13W



Power Input

LW40A13W



☛ Whenever you connect an audio or video system to your set, ensure that all elements are switched off. Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

Viewing the Connection Panel

❶ ***Connecting an Aerial or Cable Television Network***

To view television channels correctly, a signal must be received by the set from one of the following sources:

- An outdoor aerial
- A cable television network
- A satellite network

❷ ***Connecting External A/V Devices***

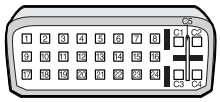
- Connect RCA or S-VIDEO cable to an appropriate external A/V device such as VCR, DVD, or Camcorder.
- Connect RCA audio cables to "**AUDIO(L)**" and "**AUDIO(R)**" on the rear of your set and the other ends to corresponding audio out connectors on the A/V device.
- Headphone may be connected to the headphone output (❽) on the rear of your set. *While the headphone is connected, the sound from the built-in speakers will be disabled.*

❸ ***Connecting Set-Top Box, VCR, or DVD***

- Connect the VCR, or DVD EXT cable to the EXT connector of the VCR, or DVD.
- If you wish to connect both the Set-Top Box and VCR (or DVD), you should connect the Set-Top Box to the VCR (or DVD) and connect the VCR (or DVD) to your set.

❹ ***Connecting Computer***

- Connect the DVI connector to the PC video connector.
- Connect the stereo audio cable to "**PC AUDIO(ST)**" on the rear of your set and the other end to "Audio Out" of the sound card on your computer.

➢ DVI connector 

Pin	Description	Pin	Description
1	Rx 2-	16	Output Signal Connection
2	Rx 2+	17	Rx 0-
3	Grounding	18	Rx 0+
4	No connection	19	Grounding
5	No connection	20	No connection
6	DDC Clock (SCL)	21	No connection
7	DDC Data (SDA)	22	Grounding
8	Analog Vertical Sync	23	Rx C-
9	Rx 1-	24	Rx C+
10	Rx 1+	25(C3)	Analog (Blue)
11	Grounding	26(C5)	Analog Grounding
12	No connection	27(C4)	Analog Horizontal sync.
13	No connection	28(C2)	Analog (Green)
14	DDC Input Power (+5V)	29(C5)	Analog Grounding
15	Self Laster	30(C1)	Analog (Red)

❺ ***Connecting Sound Outputs***

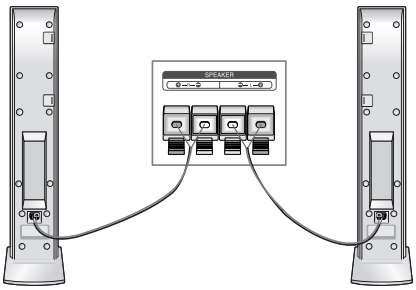
Connect RCA audio cables to an audio system or external amplifier.

Viewing the Connection Panel

❻ *Connecting Digital Audio Inputs*

Connect RCA audio cables to a equipment with a digital output (to take digital sound).

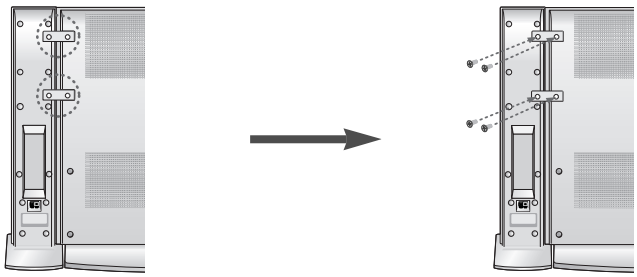
❼ *Connecting Speakers* (depending on the model)



Connect the speaker audio cable to the external speaker output jack on the rear of your set making sure that the **+**, **–** polarities are correctly aligned.

➢ The speakers MUST have more than 7watts rating (impedance 8Ω).

or

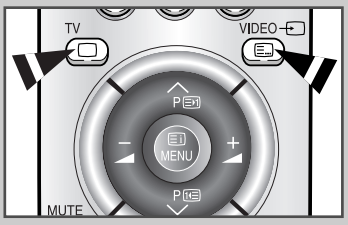


Mount the brackets on the speaker and your set.

Connect the speaker and your set using screws.

Viewing Pictures From External Sources

Once you have connected up your various audio and video systems, you can view the different sources by selecting the appropriate input.

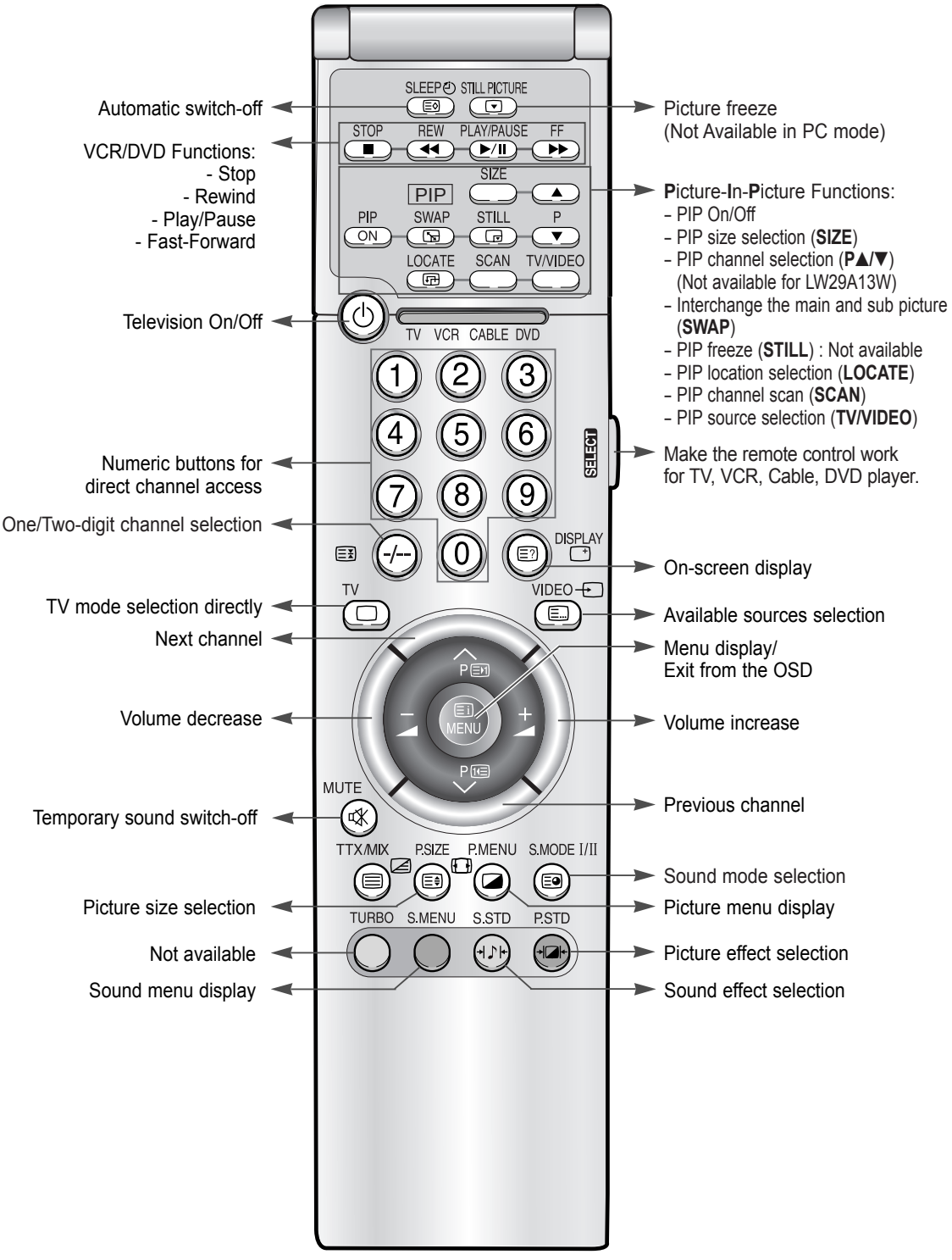


1 Check that all the necessary connections have been made (refer to pages 8 and 9 for further details).

2 Switch your set on and if necessary, press the **VIDEO** button repeatedly. The input sources are displayed in the following order:
TV – VIDEO – S-VIDEO – Ext1 – Ext2 – PC Analog – PC Digital.

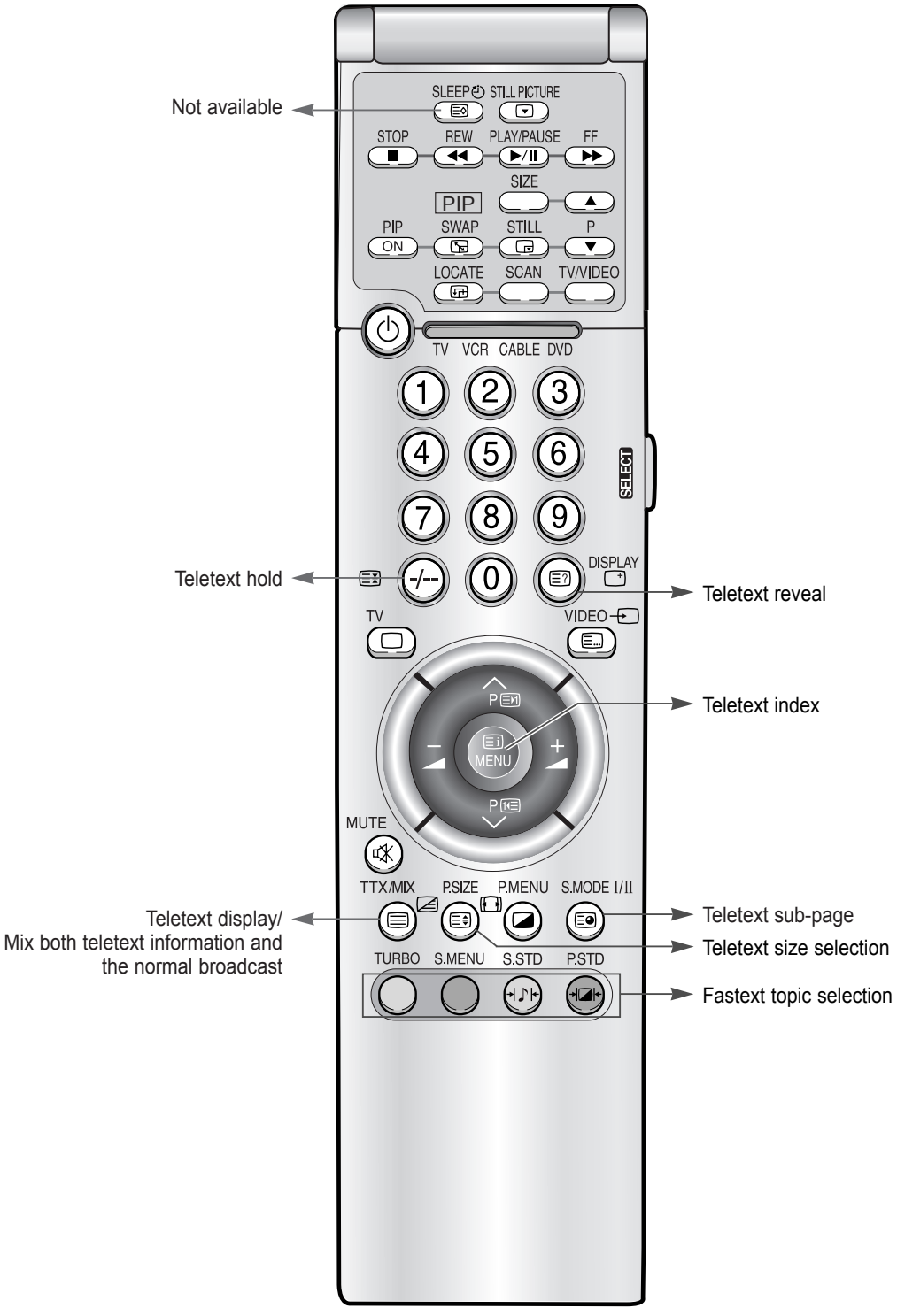
➢ To watch television programme again, press the **TV** button.

Viewing the Remote Control (All Functions Except Teletext)

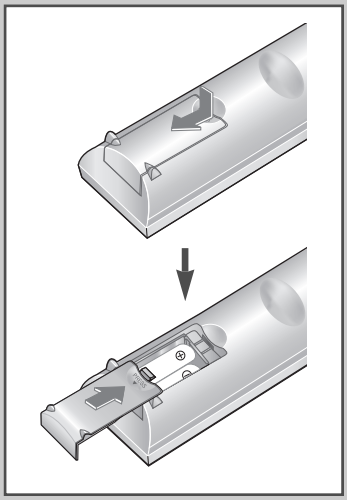


➢ The performance of the remote control may be affected by bright light.

Viewing the Remote Control (Teletext Functions)



Inserting the Batteries in the Remote Control



You must insert or replace the batteries in the remote control when you:

- ***Purchase your set***
- ***Find that the remote control is no longer operating correctly***

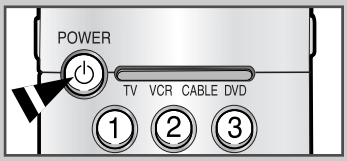
1 Remove the cover on the rear of the remote control by pressing the symbol downwards and then pulling firmly to remove it.

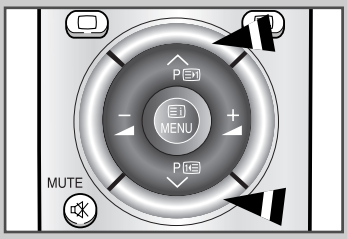
2 Insert two R03, UM4, "AAA" 1.5V or equivalent batteries taking care to respect the polarities:
- **+** on the battery against **+** on the remote control
- **–** on the battery against **–** on the remote control

3 Replace the cover by aligning it with the base of the remote control and pressing it back into place.

➢ Do not mix battery types, i.e. alkaline and monganese.

Switching On and Off





The mains lead is attached to the rear of your set.

☛ If you have purchased this set in the United Kingdom, refer to page 45 for further instructions on plug wiring.

1 Plug the mains lead into an appropriate socket.
Result: A green Standby indicator appears on the front of your set.

2 Press the **POWER** (⏻) or channel up/down (**P**∨/∧, **▼C/P.⏻▲**) button.
Result: The screen is turned on and a green Standby indicator disappears on the front of your set.

Your set can be placed in Standby mode, in order to reduce the power consumption. The Standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

1 Press the **POWER** (⏻) button.
Result: The screen is turned off and a green Standby indicator appears on the front of your set.

2 To switch your set back on, simply press the **POWER** (⏻) button again.

➢ Do not leave your set in Standby mode for long periods of time (when you are away on holiday, for example).
Turn your set off by unpluging from the mains and aerial.

Becoming Familiar with the Remote Control

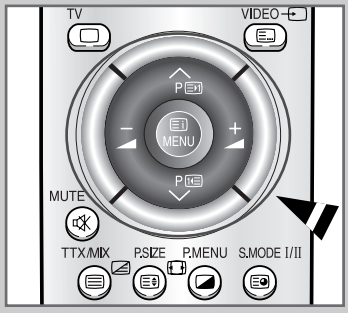
The remote control is used mainly to:

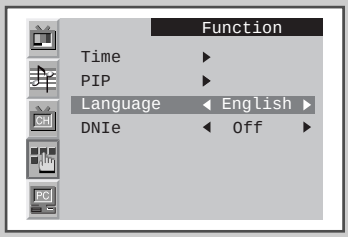
- **Change channels and adjust the volume**
- **Set up your set using the on-screen menu system**

The following table presents the most frequently used buttons and their functions.

Button	Viewing Function	Menu Function
∧ P	Used to display the next stored channel.	Used to select the previous menu option.
P ∨	Used to display the previous stored channel.	Used to select the next menu option.
⓪ to ⑨	Used to display the corresponding channels.	
-/--	Used to select a channel numbered ten or over. Press this button, and the "--" symbol is displayed. Enter the two-digit channel number.	
–	Used to decrease the volume.	Used to... ◆ Display a submenu containing selections for the current menu option. ◆ Search forwards manually for channels ◆ Reduce a menu option value.
+	Used to increase the volume.	Used to... ◆ Display a submenu containing selections for the current menu option. ◆ Search backwards manually for channels ◆ Increase a menu option value.
MUTE	Used to switch the sound off temporarily. ➢ To turn the sound back on, press this button again, or press the – or + button.	
MENU	Used to display the on-screen menu system.	Used to return to the previous menu or normal viewing.

Choosing Your Language



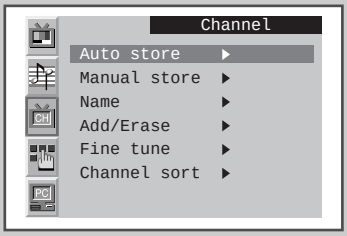


When you start using your set for the first time, you must select the language which will be used for displaying menus and indications.

1	Press the **MENU** button. Result: The main menu is displayed.
2	Press the **P** ∨ or **P** ∧ button to select the **Function**. Result: The options available in the **Function** group are displayed.
3	Press the ◢− or ◢+ button.
4	Press the **P** ∨ or **P** ∧ button to select the **Language**.
5	Select a particular language by pressing the ◢− or ◢+ button repeatedly.
6	When you are satisfied with your choice, press the **MENU** button to return to normal viewing.

Storing Channels Automatically

You can scan for the frequency ranges available to you (and availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However you can sort numbers manually and clear any channels you do not wish to watch.



1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P**∨ or **P**∧ button to select the **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **–** or **+** button.

Result: The **Auto store** is selected.

4 Press the **–** or **+** button again.

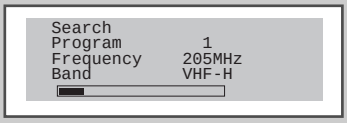
Result: The options available in the **Auto store** group are displayed when the **Country** is selected.

5 Select your country by pressing the **–** or **+** button repeatedly. The following countries are available:
Belgie – **Deutschland** – **Espania** – **France** – **Italia** – **Nederland** – **Schweiz** – **Sverige** – **UK** – **East Europe**.

6 Press the **P**∨ or **P**∧ button to select the **Search**, and then press the **–** or **+** button.

Result: The search will end automatically. Channels are sorted and stored in an order which reflects their position in the frequency range, (with lowest first and highest last). The programme originally selected is then displayed.

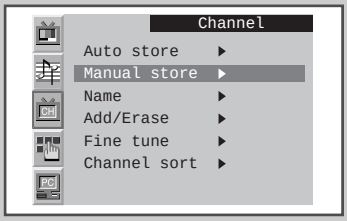
➢ To stop the search before it has finished, press the **MENU** button.

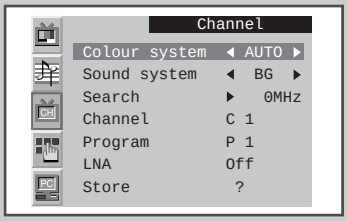


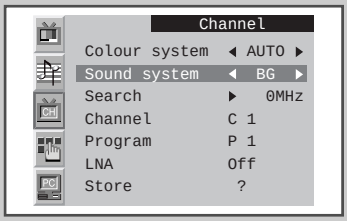
7 When the channels have been stored, you can:

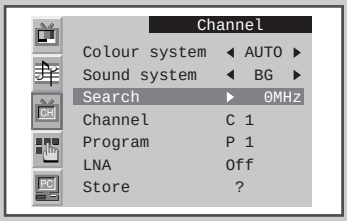
- Change channels
- Assign a name to the stored channels (refer to page 18)
- Clear a channel (refer to page 19)
- Fine tune channel reception if necessary (refer to page 19)
- Sort them in the order required (refer to page 20)

Storing Channels Manually (continued)









You can store up to 100 channels, including those received via cable networks. When storing channels manually, you can choose:

- ***Whether or not to store each of the channels found***
- ***The programme number of each stored channel which you wish to identify***

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P∨** or **P∧** button to select the **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **–** or **+** button.

4 Press the **P∨** or **P∧** button to select the **Manual store**.
Press the **–** or **+** button.

Result: The options available in the **Manual store** group are displayed with the **Colour system** is selected.

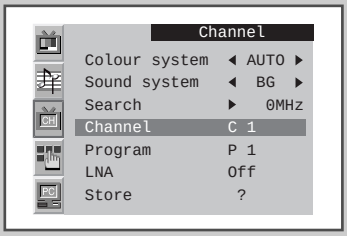
5 If necessary, indicate the broadcasting standard required by pressing the **–** or **+** button repeatedly.

Result: The colour standards are displayed in the following order: **AUTO** – **PAL** – **SECAM** – **NT4.43**.

6 Press the **P∨** or **P∧** button to select the **Sound system**. Indicate the sound standard required by pressing the **–** or **+** button repeatedly.

Result: The sound standards are displayed in the following order: **BG** – **DK** – **I** – **L**.

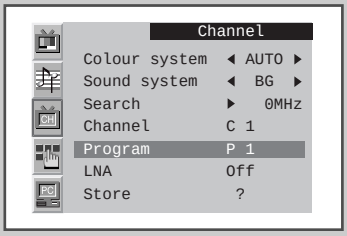
Storing Channels Manually



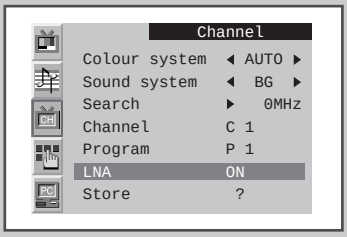
7 If you know the channel number to be stored, press the **P**∨ or **P**∧ button to select the **Channel**. Indicate the required number by pressing the ◢**–** or ◢**+** button.

If you do not know the channel numbers, press the **P**∨ or **P**∧ button to select the **Search**.
Start the search by pressing the ◢**–** or ◢**+** button.

Result: The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.

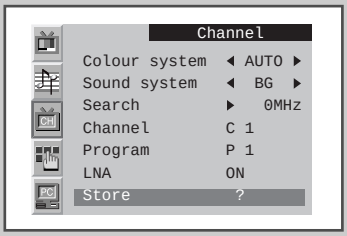


8 To assign a programme number to a channel, select the **Program** by pressing the **P**∨ or **P**∧ button.
Press the ◢**–** or ◢**+** button to find the correct number.



9 Press the **P**∨ or **P**∧ button to select the **LNA**.**(LW40A13W)**
Select the **On** by pressing the ◢**–** or ◢**+** button.

Result: Amplifies signals when antenna reception is poor. However if incoming signals are interfering with each other, turn off LNA as it may malfuction.

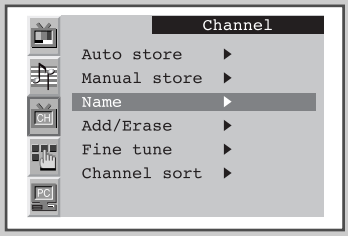


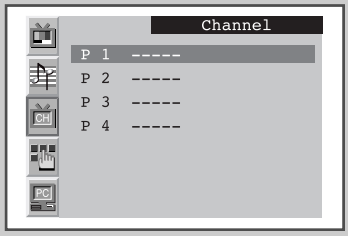
10 Press the **P**∨ or **P**∧ button to select the **Store**.
Select the **OK** by pressing the ◢**–** or ◢**+** button.

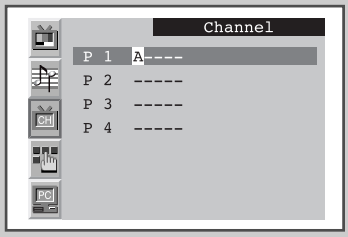
Result: The channel and associated programme number are stored.

11 Repeat Steps **7** to **9** for each channel to be stored.

Giving Channels Names







If channel name information is broadcast when you store the channels either manually or automatically, the names are assigned to the channels directly. You can however change these names or assign new names as required.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P**∨ or **P**∧ button to select the **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the ◢**–** or ◢**+** button.

4 Press the **P**∨ or **P**∧ button to select the **Name**.
Press the ◢**–** or ◢**+** button.

Result: The current channels are displayed.

5 If necessary, select the channel to be assigned to a new name by pressing the **P**∨ or **P**∧ button.

6 Press the ◢**–** or ◢**+** button.

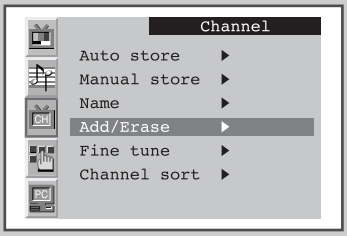
7 Press the **P**∨ or **P**∧ button to select a letter (A~Z), a number (0~9) or a symbol (–, space). Move on the previous or next letter by pressing the ◢**–** or ◢**+** button.

8 Repeat Steps **5** to **7** for each channel to be assigned to a new name.

Skipping Unwanted Channels

You can exclude the channels you chosen from the channels you scanned. When you scan through the stored channels, those you have chosen to skip are not displayed.

All channels that you do not specifically choose to skip are displayed during scanning.



1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P** ∨ or **P** ∧ button to select the **Channel**.

Result: The options available in the **Channel** group are displayed.

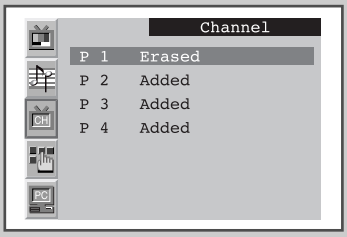
3 Press the **–** or **+** button.

4 Press the **P** ∨ or **P** ∧ button to select the **Add/Erase**.
Press the **–** or **+** button.

Result: The stored channels are displayed.

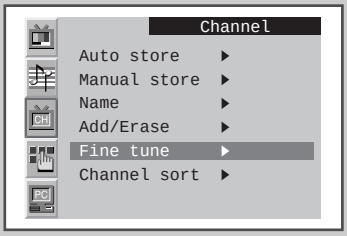
5 Press the **P** ∨ or **P** ∧ button to select the channel to add or erase.
If necessary, select the **Added** or **Erased** by pressing the **–** or **+** button.

6 Repeat Step **5** for each channel to be added or erased.



Fine Tuning Channel Reception

If the reception is clear, you do not have to fine-tune the channel, as this is done automatically during the search and store operation. If however the signal is weak or distorted, you may have to fine-tune the channel manually.

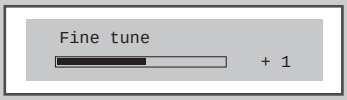


1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P** ∨ or **P** ∧ button to select the **Channel**.

Result: The options available in the **Channel** group are displayed.

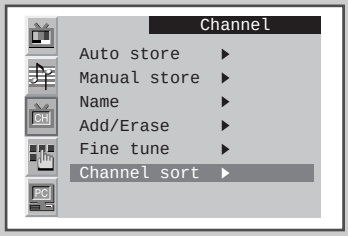


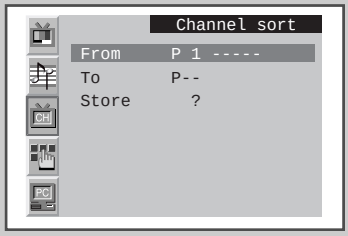
3 Press the **–** or **+** button.

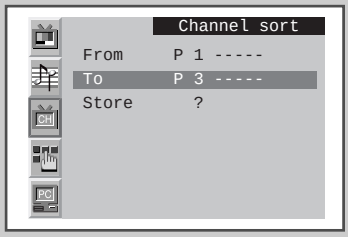
4 Press the **P** ∨ or **P** ∧ button to select the **Fine tune**.

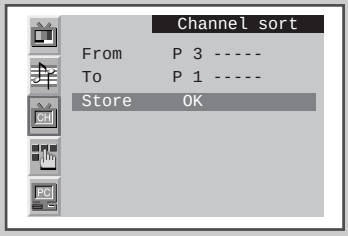
5 Obtain a sharp and clear picture and good sound quality by pressing the **–** or **+** button.

Sorting the Stored Channels









You can exchange the numbers of two channels, in order to:

- ***Modify the numeric order in which the channels have been automatically stored.***
- ***Give easily remembered numbers to the channels that you watch most often.***

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P**∨ or **P**∧ button to select the **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the ◢**–** or ◢**+** button.

4 Press the **P**∨ or **P**∧ button to select the **Channel sort**.
Press the ◢**–** or ◢**+** button.

Result: The options available in the **Channel sort** group are displayed with the **From** is selected.

5 Select the channel number that you wish to change by pressing the ◢**–** or ◢**+** button repeatedly.

6 Press the **P**∨ or **P**∧ button to select the **To**. Select the new number by which you wish to identify the channel by pressing the ◢**–** or ◢**+** button repeatedly.

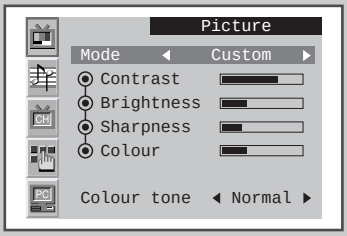
7 Press the **P**∨ or **P**∧ button to select the **Store**. Select the **OK** to confirm the exchange of channel numbers by pressing the ◢**–** or ◢**+** button.

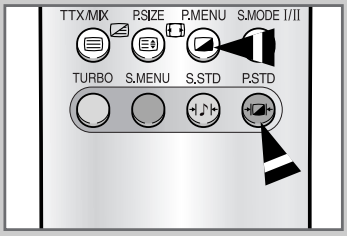
Result: The selected channel is exchanged with the one previously stored to the chosen number.

8 For all the channels to move to the required channel numbers, repeat steps **5** to **7** after select the **From** by pressing the **P**∨ or **P**∧ button.

Changing the Picture Standard

You can select the type of picture which best corresponds to your viewing requirements.





1 Press the **MENU** button.
Result: The main menu is displayed.

2 Press the **P**∨ or **P**∧ button to select the **Picture**.
Result: The options available in the **Picture** group are displayed.

➢ You can also display simply by pressing the **P.MENU** (Picture Menu) button.

3 Press the **–** or **+** button.
Result: The **Mode** is selected.

4 Select the required picture effect by pressing the **–** or **+** button repeatedly. The following picture effects are available:

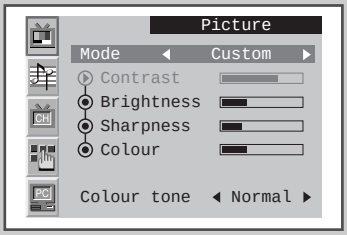
Dynamic – **Standard** – **Movie** – **Custom**

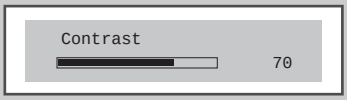
➢ You can also set these options simply by pressing the **P.STD** (Picture Standard) button.

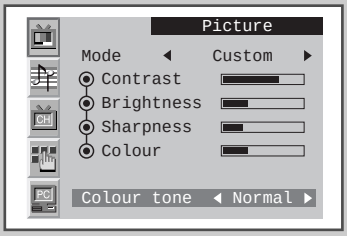
➢ On the **Picture** menu, if you change the **Contrast**, **Brightness**, **Sharpness**, **Colour** or **Tint** (NTSC only) settings, the **Custom** is selected automatically.

Adjusting the Picture Settings

Your set has several settings which allow you to control picture quality.







1 Press the **MENU** button.
Result: The main menu is displayed.

2 Press the **P**∨ or **P**∧ button to select the **Picture**.
Result: The options available in the **Picture** group are displayed.

3 Press the **–** or **+** button.

4 Select the option (**Contrast**, **Brightness**, **Sharpness**, **Colour** or **Tint**-NTSC only) to be adjusted by pressing the **P**∨ or **P**∧ button. Press the **–** or **+** button.
Result: The horizontal bar is displayed.

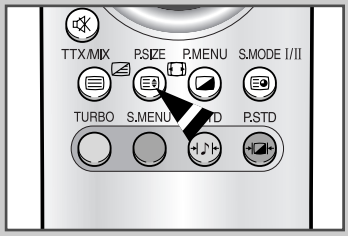
5 Press the **–** or **+** button to reach the required setting.

6 Press the **P**∨ or **P**∧ button to select the **Colour tone**. Select the required option by pressing the the **–** or **+** button repeatedly. The following options are available:

Cool2 – **Cool1** – **Normal** – **Warm1** – **Warm2**.

➢ If you make any changes to these settings, the picture standard is automatically switched to **Custom**.

Selecting the Picture Format



You can select the picture format which best corresponds to your viewing requirements simply by pressing the "P.SIZE" (Picture Size) button.

The following picture formats are available:

- **16:9** Sets the Normal picture in 16:9 Wide mode.
- **Panorama** Sets the picture in 16:9 Wide mode so that it can be shown like the Normal picture.
- **Zoom 1** Expands the 4:3 aspect ratio screen size.
- **Zoom 2** Expands the **Zoom 1** screen size.
- **4:3** Setting for normal 4:3 format.
- **Auto Wide** The screen size is automatically adjusted when entering a PAL Plus signal(WSS).

➢
- This feature does not work while the PIP feature is activating
- When the picture size is selected to **16:9**, the PIP feature will work.

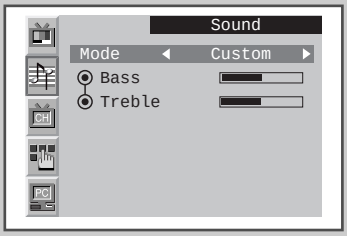
Freezing the Current Picture

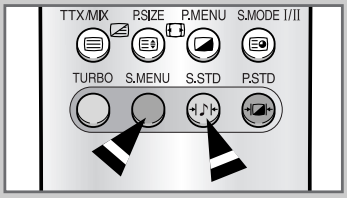
➢ Not Available in PC mode.

Press the "STILL PICTURE" button on the remote control to freeze the picture on a given frame.
When PIP is active, PIP screen is also frozen.
To return to normal viewing, press the "STILL PICTURE" button again.

Changing the Sound Standard

You can select the type of special sound effect to be used when watching a given broadcast.





1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P**∨ or **P**∧ button to select the **Sound**.

Result: The options available in the **Sound** group are displayed.

➢ You can also display simply by pressing the **S.MENU** (Sound Menu) button.

3 Press the **–** or **+** button.

Result: The **Mode** is selected.

4 Select the required sound effect by pressing the **–** or **+** button repeatedly. The following sound effects are available:

Custom – **Standard** – **Music** – **Movie** – **Speech**.

➢ You can also set these options simply by pressing the **S.STD** (Sound Standard) button.

Adjusting the Sound Settings

The sound settings can be adjusted to suit your personal preferences.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P**∨ or **P**∧ button to select the **Sound**.

Result: The options available in the **Sound** group are displayed.

3 Press the **–** or **+** button.

4 Select the option (**Bass** or **Treble**) to be adjusted by pressing the **P**∨ or **P**∧ button. Press the **–** or **+** button.

Result: The horizontal bar is displayed.

5 Press the **–** or **+** button to reach the required setting.

➢ If you make any changes to these settings, the sound standard is automatically switched to **Custom**.

Enjoying the Dolby Sound (LW29A13W)

This feature provides a home theater-like Dolby effect by mixing the left and right speakers.

1	Press the **MENU** button. Result: The main menu is displayed.
2	Press the **P** ∨ or **P** ∧ button to select the **Sound**. Result: The options available in the **Sound** group are displayed.
3	Press the ◢– or ◢+ button.
4	Press the **P** ∨ or **P** ∧ button to select the **Dolby**.
5	For enjoying the Dolby sound effect, select the **On** by pressing the ◢– or ◢+ button.

Switching the Internal Woofers On/Off (LW29A13W)

When the internal woofers are switched off, all the sound is routed to the external woofers.

1	Press the **MENU** button. Result: The main menu is displayed.
2	Press the **P** ∨ or **P** ∧ button to select the **Sound**. Result: The options available in the **Sound** group are displayed.
3	Press the ◢– or ◢+ button.
4	Press the **P** ∨ or **P** ∧ button to select the **Woofer**.
5	Select the **On** to be routed the sound to the internal woofers by pressing the ◢– or ◢+ button.

Setting the External Digital Sound (LW40A13W)

You can enjoy Digital sound when the equipment with Digital output is connected to the television.

1 Press the **MENU** button.
Result: The main menu is displayed.

2 Press the **P∨** or **P∧** button to select the **Sound**.
Result: The options available in the **Sound** group are displayed.

3 Press the **–** or **+** button.

4 Press the **P∨** or **P∧** button to select the **Ext. audio**.
Press the **–** or **+** button.
Result: The **Ext. audio** menu is displayed.

5 Select the required output (**EXT1**, **EXT2**, **S-video** or **Video**) by pressing the **–** or **+** button.

6 Select the option (**Analog**, **Optical** or **Coaxial**) by pressing the **–** or **+** button.

7 Press the **MENU** button.
Result: The options available in the **Sound** group are displayed again.

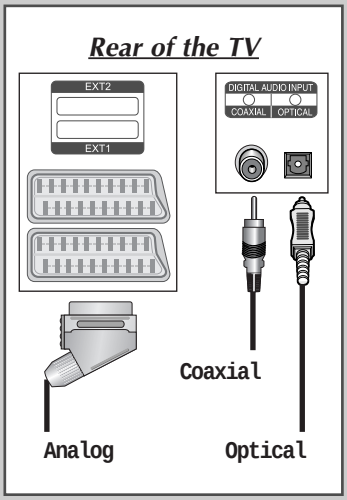
8 Press the **P∨** or **P∧** button to select the **Audio out**.

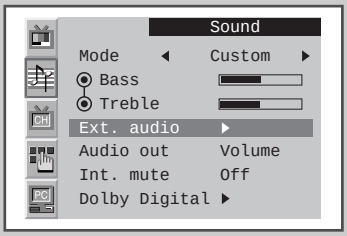
9 Select the required option (**Volume** or **Fixed**) by pressing the **–** or **+** button.

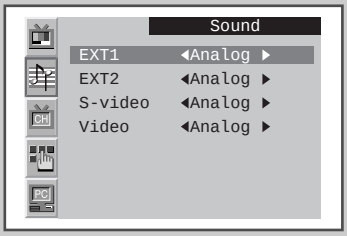
- If you want to adjust the volume level with the volume control on the TV or external amplifier, set to **Volume**.
- If you set to **Fixed**...
  - You can adjust the volume level with the volume control on the audio amplifier. And the **Int. mute** is set to **On** automatically, and you can not select it.
  - The following controls are not available: volume, bass, treble, and speaker setting.

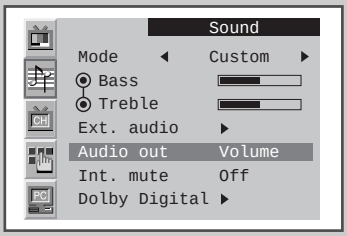
10 Press the **P∨** or **P∧** button to select the **Int. mute**.
If you set to **On**, no sound outputs of all internal and external speakers.

➢ When the **Audio out** is set to **Volume**, you can select the **Int. mute** and control it.

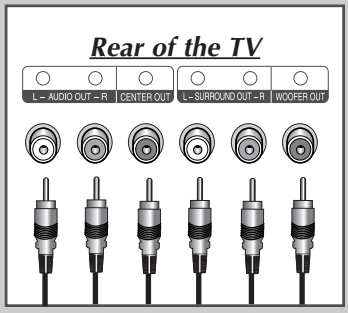


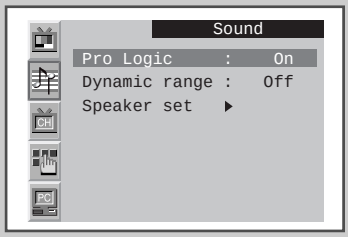


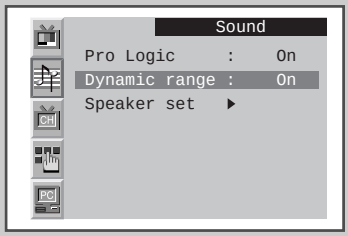


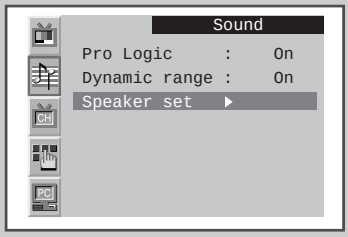


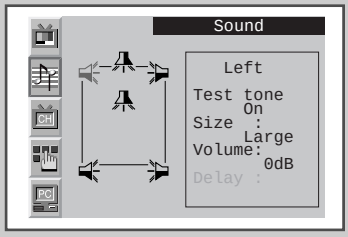
Setting the Dolby Digital (LW40A13W)











You can enjoy Digital sound when the equipment with Digital output is connected to the television.

1 Press the **MENU** button.
Result: The main menu is displayed.

2 Press the **P** ∨ or **P** ∧ button to select the **Sound**.
Result: The options available in the **Sound** group are displayed.

3 Press the ◢– or ◢+ button.

4 Press the **P** ∨ or **P** ∧ button to select the **Dolby Digital**.
Press the ◢– or ◢+ button.
Result: The **Dolby Digital** menu is displayed with the **Pro Logic** is selected.

5 Select the option (**Auto**, **On** or **Off**) by pressing the ◢– or ◢+ button.
➢ For further details of output depending on the each options, refer to following page.

6 Press the **P** ∨ or **P** ∧ button to select the **Dynamic range**. If you wish to adjust the volume properly during night viewing, select the **On** by pressing the ◢– or ◢+ button.

7 Press the **P** ∨ or **P** ∧ button to select the **Speaker setting**.
Press the ◢– or ◢+ button.
Result: The **Speaker Setting** menu is displayed with the main left speaker is selected.

8 Select the speaker (**Left**, **Center**, **Right**, **Right Rear**, **Left Rear**, **Woofer**) to be adjusted by pressing the **P** ∨ or **P** ∧ button.

9 Depending on the speaker, the following settings can be adjusted to suit your personal preferences.
- Test tone to simulate the volume (**On** or **Off**)
- Size (**Large**, **Small** or **Off**)
- Volume level (-10dB ~ 10dB)
- delay time of surround channel (0 ~ 15ms) : When the **Right Rear** or **Left Rear** is selected, you can adjust.

Setting the Dolby Pro Logic (LW40A13W)

In case of "Pro Logic : Auto"

Input (Source) \ Output		Main Left	Center	Main Right	Surround		Sub Woofer
					Right	Left	
Mono		✔		✔			
PCM Stereo (L/R)		✔		✔			
Dolby Digital	Mono	✔		✔			
	Lo/Ro	✔		✔			
	Lt/Rt	✔	✔	✔	✔	✔	
	5.1ch	✔	✔	✔	✔	✔	✔
DTS		✔	✔	✔	✔	✔	✔
MPEG I (Stereo only)		✔		✔			
MPEG II		✔	✔	✔	✔	✔	✔

In case of "Pro Logic : On"

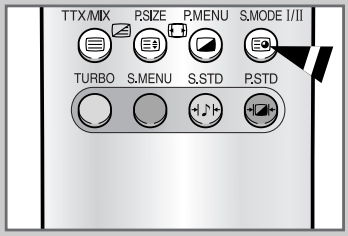
Input (Source) \ Output		Main Left	Center	Main Right	Surround		Sub Woofer
					Right	Left	
Mono			✔				
PCM Stereo (L/R)		✔	✔	✔	✔	✔	
Dolby Digital	Mono		✔				
	Lo/Ro	✔	✔	✔	✔	✔	
	Lt/Rt	✔	✔	✔	✔	✔	
	5.1ch	✔	✔	✔	✔	✔	✔
DTS		✔	✔	✔	✔	✔	✔
MPEG I (Stereo only)		✔	✔	✔	✔	✔	
MPEG II		✔	✔	✔	✔	✔	✔

In case of "Pro Logic : Off"

Input (Source) \ Output		Main Left	Center	Main Right	Surround		Sub Woofer
					Right	Left	
Mono		✔		✔			
PCM Stereo (L/R)		✔		✔			
Dolby Digital	Mono	✔		✔			
	Lo/Ro	✔		✔			
	Lt/Rt	✔		✔			
	5.1ch	✔	✔	✔	✔	✔	✔
DTS		✔	✔	✔	✔	✔	✔
MPEG I (Stereo only)		✔		✔			
MPEG II		✔	✔	✔	✔	✔	✔

➢ The output of Sub Woofer is changed depending on the speaker setting.

Selecting the Sound Mode



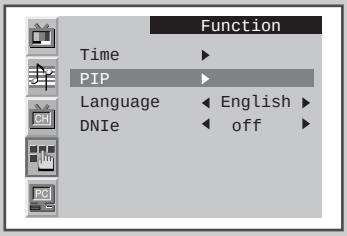
The "S.MODE" button displays/controls the processing and output of the audio signal. When power is switched on, the mode is automatically preset to either "Dual-I " or "Stereo", depending on the current transmission.

	Type of broadcast	On-screen indication
NICAM Stereo	Regular broadcast (Standard audio)	**MONO** (Normal use)
	Regular + NICAM Mono	**MONO** ↔ **MONO** **NICAM** (Normal)
	NICAM Stereo	**STEREO** ↔ **MONO** **NICAM** (Normal)
	NICAM Dual-I/II	**Dual-I** → **Dual-II** → **MONO** **NICAM** **NICAM** (Normal)
A2 Stereo	Regular broadcast (Standard audio)	**MONO** (Normal use)
	Bilingual or Dual-I/II	**DUAL-I** ↔ **DUAL-II**
	Stereo	**STEREO** ↔ **MONO** (Forced mono)

➢
- If the receiving conditions deteriorate, listening will be easier if the mode is set to the **MONO**.
- If the stereo signal is weak and an automatic switching occurs, then switch to the **MONO**.
- When receiving a mono sound in the AV mode, connect to the "AUDIO (L)" input connector on the rear panel.

Viewing the Picture In Picture (PIP) (continued)

You can display a sub picture within the main picture of TV program or external A/V devices such as VCR or DVD. In this way you can watch TV program the video input from any connected devices while watching TV or other video input.

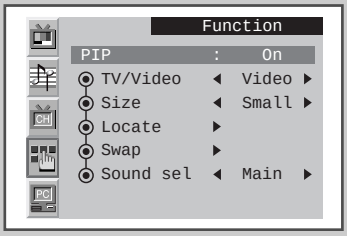


1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P** ∨ or **P** ∧ button to select the **Function**.

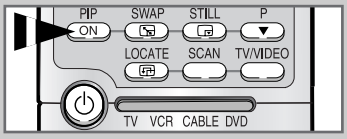
Result: The options available in the **Function** group are displayed.



3 Press the ◢ **–** or ◢ **+** button.

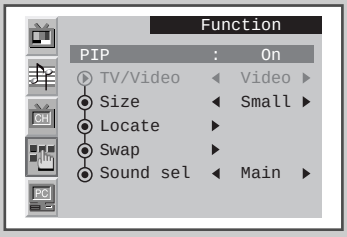
4 Press the **P** ∨ or **P** ∧ button to select the **PIP**.
Press the ◢ **–** or ◢ **+** button.

Result: The options available in the **PIP** group are displayed.



5 Select the **On** by pressing the ◢ **–** or ◢ **+** button.

➢ You can also activate the PIP simply by pressing the **PIP ON** button. To deactivate the PIP, press it again.

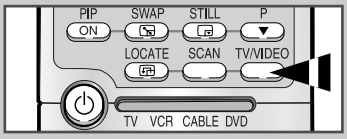


6 Press the **P** ∨ or **P** ∧ button to select the **TV/Video**. Select a source of the sub picture by pressing the ◢ **–** or ◢ **+** button.

Result: The sources are displayed in the following order (depending on the model):

TV (LW40A13W) – **Video** – **S-Video** – **EXT1** – **EXT2**.

➢ You can also select these options simply by pressing the **TV/VIDEO** button.

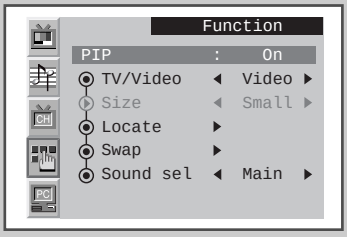


7 Press the **P** ∨ or **P** ∧ button to select the **Size**. Select a size of the sub picture by pressing the ◢ **–** or ◢ **+** button.

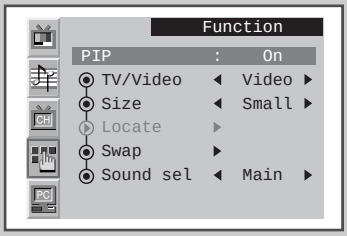
Result: The sizes are displayed in the following order:

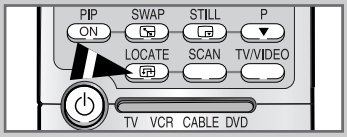
Small – **Double**

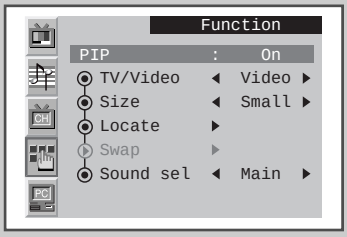
➢ You can also select these options simply by pressing the **SIZE** button.

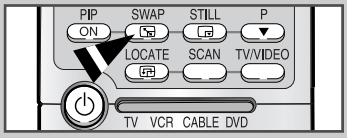


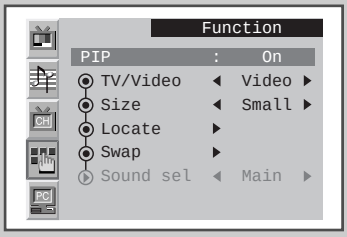
Viewing the Picture In Picture (PIP)

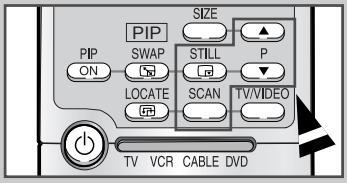












8 Press the **P** ∨ or **P** ∧ button to select the **Locate**. Move the sub picture counterclockwise by pressing the ◢+ button.

➢ ◆ When the size of sub picture is set to **Double**, this feature does not work.

◆ You can also move the sub picture simply by pressing the **LOCATE** button.

9 Press the **P** ∨ or **P** ∧ button to select the **Swap**. Pressing the ◢– or ◢+ button.

Result: The main picture and the sub picture are interchanged.

➢ You can also select these options simply by pressing the **SWAP** button.

10 Press the **P** ∨ or **P** ∧ button to select the **Sound sel**. To hear the sound of sub picture, select the **Sub** by pressing the ◢– or ◢+ button.

Result: The options are displayed in the following order:

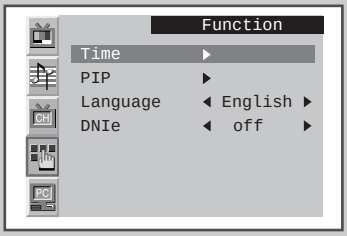
Main – Sub

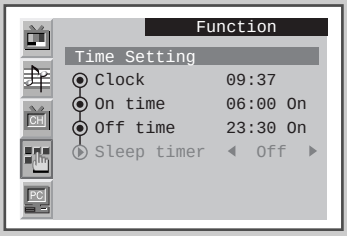
➢ ◆ **P▼/▲ button :** Used to select the channel of sub picture.

◆ **SCAN button** : Used to scan every memorized channel in order. To stop scanning, press it again.

Selecting the Sleep timer

You can select a time period of between 10 and 240 minutes after your set automatically switches off.





1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P**∨ or **P**∧ button to select the **Function**.

Result: The options available in the **Function** group are displayed.

3 Press the **–** or **+** button.

Result: The **Time** is selected.

4 Press the **–** or **+** button again.

Result: The **Time Setting** menu is displayed.

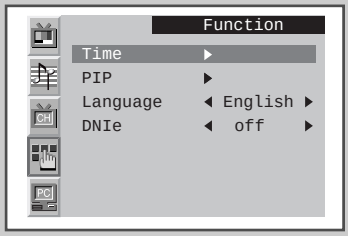
5 Press the **P**∨ or **P**∧ button to select the **Sleep timer**. Select the number of minutes after which your set switches off by pressing the **–** or **+** button repeatedly.

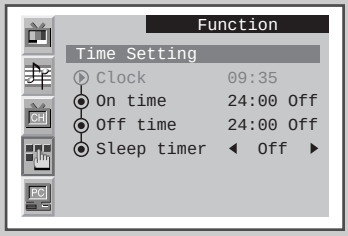
- The preset time intervals: 10, 20, 30, 60, 90, 120, 150, 180, 210, and 240 minutes.

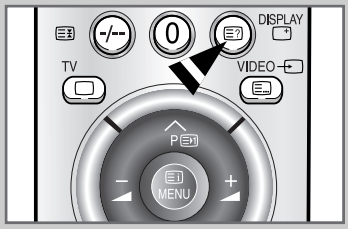
➢ **You can also select simply by pressing the "SLEEP" button.**

If the sleep timer is already set, the screen displays the remaining time and then your set will be switched off. If the sleep timer is not yet set, displays **Off**.

Setting and Displaying the Current Time







You can set the television's clock so that the current time is display by pressing the "DISPLAY" button. You must also set the time if you wish switch the television on or off automatically at the time you select.

➢ If you disconnect the power cord and re-connect it, the clock will be reset to the default value.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P**∨ or **P**∧ button to select the **Function**.

Result: The options available in the **Function** group are displayed.

3 Press the **–** or **+** button.

Result: The **Time** is selected.

4 Press the **–** or **+** button again.

Result: The **Time Setting** menu is displayed with **Clock** is selected.

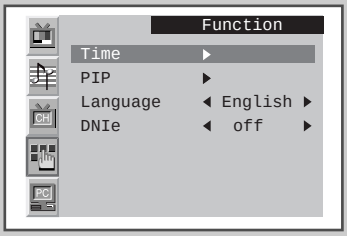
5 Press the **–** or **+** button to move to the hour or minute. Set the hour or minute by pressing the **P**∨ or **P**∧ button.

➢ You can view the setting status of selected source by pressing the "DISPLAY" button on the remote control.

Switching the Television On and Off Automatically

You can switch the television on or off automatically at the time you select.

➢ The first step is to set the television's clock (refer to "Setting and Displaying the Current Time" on the previous page).

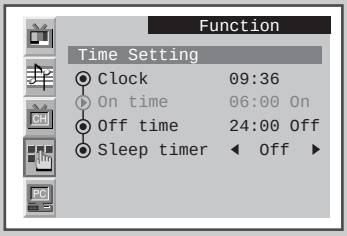


1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P**∨ or **P**∧ button to select the **Function**.

Result: The options available in the **Function** group are displayed.

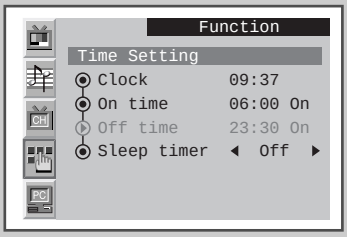


3 Press the **–** or **+** button.

Result: The **Time** is selected.

4 Press the **–** or **+** button again.

Result: The **Time Setting** menu is displayed.

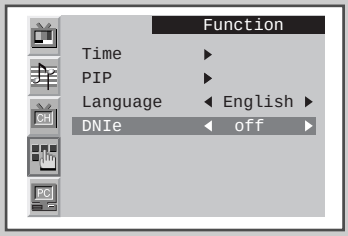


5 Press the **P**∨ or **P**∧ button to select **On time**. Set the time at which you wish the television to be switched on automatically.

- Press the **–** or **+** button to move to the hour, minute or on/off. Set these by pressing the **P**∨ or **P**∧ button.

6 Press the **P**∨ or **P**∧ button to select **Off time**.
In the same above, set the time at which you wish the television to be switched off automatically.

DNIe (Digital Natural Image engine)



Samsung's New Technology bring you more detailed image with contrast enhancement and white enhancement. New image compensation algorithm gives brighter, cleare, to our customers. DNIe technology will fit every signals into your eyes.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P**∨ or **P**∧ button to select the **Function**.

Result: The options available in the **Function** group are displayed.

3 Press the **P**∨ or **P**∧ button to select the **DNIe**.
Select the required option by pressing the the ◢**–** or ◢**+** button repeatedly.
The following options are available:

Off – **Medium** – **High** – **Demo**

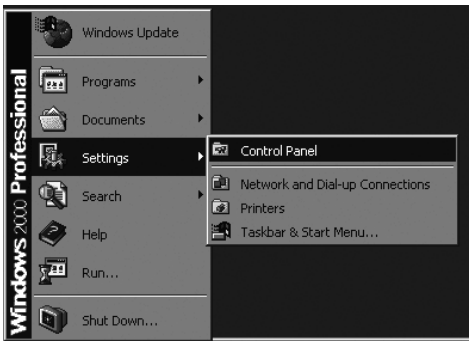
- **Off** Switches off the DNIe mode.
- **Medium** Switches on the DNIe mode.
- **High** The screen is more clear than in Medium.
- **Demo** The screen before applying DNIe appears on the right and the screen after applying DNIe appears on the left.

Setting up Your PC Software (Based on Widows 2000 or XP)

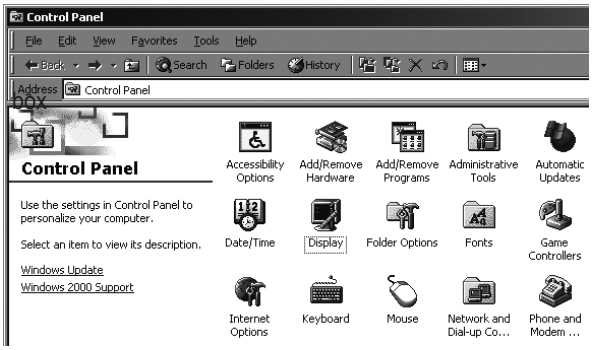
The Windows display-settings for a typical computer are shown below. But the actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. But even if your actual screens look different, the same, basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1 First, click on "**Settings**" on the Windows start menu.

While "**Settings**" is highlighted, move the cursor so that "**Control Panel**" is highlighted.



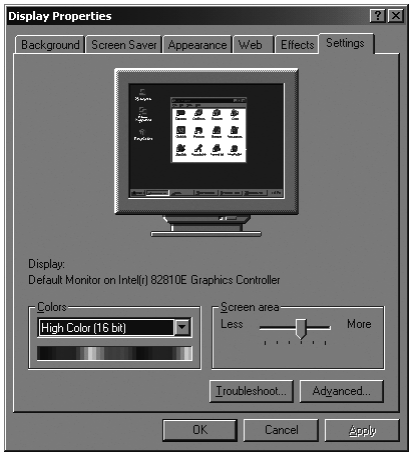
2 When the control panel screen appears, click on "**Display**" and a display dialog-box will appear.



3 Navigate to the "**Settings**" tab on the display dialog-box.

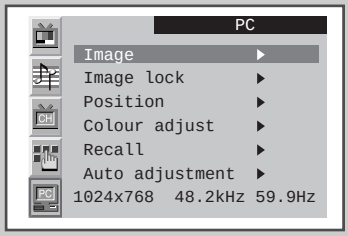
The correct setting of size (resolution)
- 1280 x 768 pixels

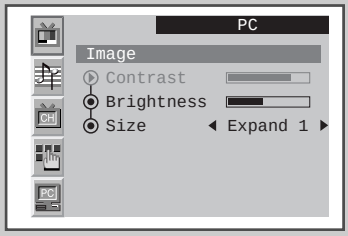
If a vertical-frequency option exists on your display settings dialog box, the correct value is "**60**" or "**60 Hz**".
Otherwise, just click "**OK**" and exit the dialog box.

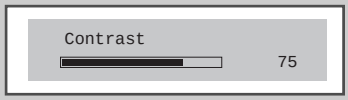


Adjusting the Contrast and Brightness

➢ Preset to the PC mode by pressing the VIDEO button.







1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P**∨ or **P**∧ button to select the **PC**.

Result: The options available in the **PC** group are displayed.

3 Press the ◢**–** or ◢**+** button.

Result: The **Image** is selected.

4 Press the ◢**–** or ◢**+** button again.

Result: The options available in the **Image** group are displayed.

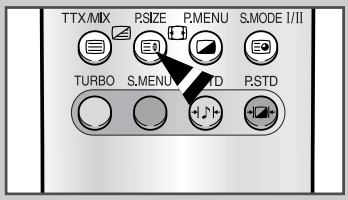
5 Select the option (**Contrast** or **Brightness**) to be adjusted for the colour of your computer image by pressing the **P**∨ or **P**∧ button. Press the ◢**–** or ◢**+** button.

Result: The horizontal bar is displayed.
In Digital mode, the Brightness can be only adjusted.

6 Press the ◢**–** or ◢**+** button to reach the required setting.

Selecting the Image Size

➢ Preset to the PC mode by pressing the VIDEO button.
This function doesn't work in Digital input.



1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P**∨ or **P**∧ button to select the **PC**.

Result: The options available in the **PC** group are displayed.

3 Press the ◢**–** or ◢**+** button.

Result: The **Image** is selected.

4 Press the ◢**–** or ◢**+** button again.

Result: The options available in the **Image** group are displayed.

5 Press the **P**∨ or **P**∧ button to select the **Size**. Select a size of the your computer image by pressing the ◢**–** or ◢**+** button.

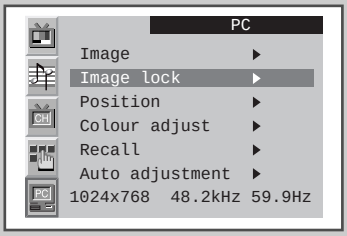
Result: The sizes are displayed in the following order:
Expand 1 – **Expand 2** – **Normal**.

➢ You can also select these options simply by pressing the **P.SIZE** (Picture Size) button.

Adjusting the Image Quality

➢ Preset to the PC mode by pressing the VIDEO button.
This function doesn't work in Digital input.

This feature is used to fine tune and get the best image by removing noises that create unstable images with jitters and shimmers.



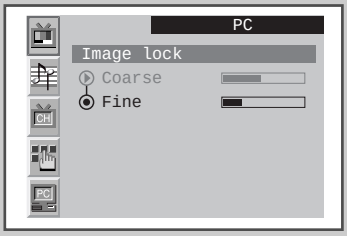
1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P**∨ or **P**∧ button to select the **PC**.

Result: The options available in the **PC** group are displayed.

3 Press the ◢– or ◢+ button.



4 Press the **P**∨ or **P**∧ button to select the **Image lock**.
Press the ◢– or ◢+ button.

Result: The options available in the **Image lock** group are displayed.

5 Select the option (**Coarse** or **Fine**) to be adjusted for the quality of your computer image by pressing the **P**∨ or **P**∧ button.
Press the ◢– or ◢+ button.

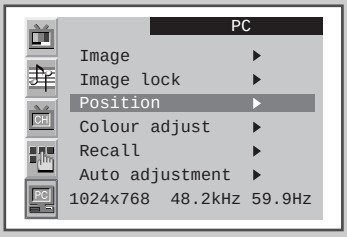
Result: The horizontal bar is displayed.

6 Press the ◢– or ◢+ button to reach the required setting.

➢ This feature may change the width of the image. If necessary, adjust the position to center.

Changing the Image Position

➢ Preset to the PC mode by pressing the VIDEO button.
This function doesn't work in Digital input.



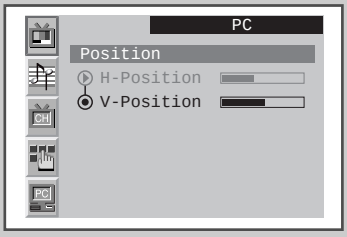
1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P**∨ or **P**∧ button to select the **PC**.

Result: The options available in the **PC** group are displayed.

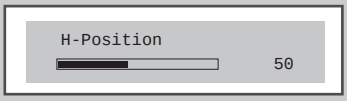
3 Press the ◢– or ◢+ button.



4 Press the **P**∨ or **P**∧ button to select the **Position**.
Press the ◢– or ◢+ button.

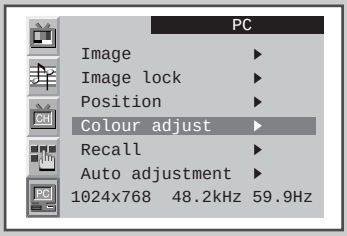
5 Select the position (**H-Position** or **V-Position**) to be adjusted by pressing the **P**∨ or **P**∧ button. Press the ◢– or ◢+ button.

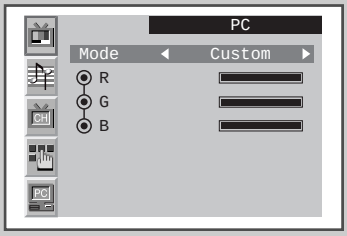
Result: The horizontal bar is displayed.

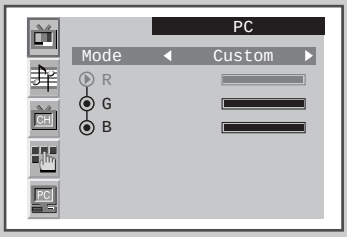


6 Press the ◢– or ◢+ button to reach the required setting.

Adjusting the Colour







➢ Preset to the PC mode by pressing the VIDEO button.
This function doesn't work in Digital input.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P**∨ or **P**∧ button to select the **PC**.

Result: The options available in the **PC** group are displayed.

3 Press the ◢**–** or ◢**+** button.

4 Press the **P**∨ or **P**∧ button to select the **Colour adjust**.
Press the ◢**–** or ◢**+** button.

Result: The options available in the **Colour adjust** group are displayed with the Mode is selected.

5 Select the required colour mode by pressing the ◢**–** or ◢**+** button repeatedly. the following colour modes are available.
Custom - Colour 1 - Colour 2 - Colour 3

6 If you wish adjust the colour which best corresponds to you viewing requirements, select the option (**R**-Red, **G**-Green or **B**-Blue) to be adjusted by pressing the **P**∨ or **P**∧ button.
Press the ◢**–** or ◢**+** button.

Result: The horizontal bar is displayed.

7 Press the ◢**–** or ◢**+** button to reach the required setting.

➢ If you change the **R**(Red) **G**(Green)or **B**(Blue) setting, the **Mode** is selected to **Custom** automatically.

Initializing the Image Settings

➢ Preset to the PC mode by pressing the VIDEO button.

You can replace all image settings with the factory default values.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the **P**∨ or **P**∧ button to select the **PC**.

Result: The options available in the **PC** group are displayed.

3 Press the ◢**–** or ◢**+** button.

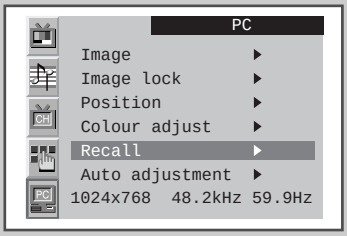
4 Press the **P**∨ or **P**∧ button to select the **Recall**.
Press the ◢**–** or ◢**+** button.

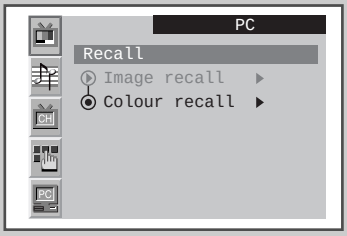
Result: The options available in the **Recall** group are displayed.

5 Select the option (**Image recall** or **Colour recall**) to be replaced by pressing the **P**∨ or **P**∧ button. Press the ◢**–** or ◢**+** button.

Result: The screen becomes black and return to original view about a few seconds later.

In Digital input, the Colour recall can be only adjusted.





Adjusting the PC Screen Automatically

➢ Preset to the PC mode by pressing the VIDEO button.
This function doesn't work in Digital input.

1 Press the **MENU** button.

Result: The main menu is displayed.

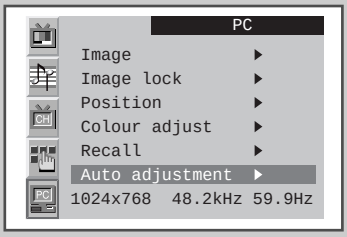
2 Press the **P**∨ or **P**∧ button to select the **PC**.

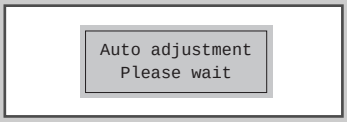
Result: The options available in the **PC** group are displayed.

3 Press the ◢**–** or ◢**+** button.

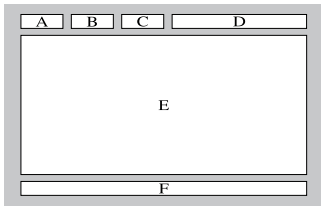
4 Press the **P**∨ or **P**∧ button to select the **Auto adjustment**.
Press the ◢**–** or ◢**+** button.

Result: The screen quality and position are automatically adjusted, and the screen returns to original view about a few seconds later.





Teletext Feature



Most television channels provide written information services via teletext. Information provided includes:

- ***Television programme times***
- ***News bulletins and weather forecasts***
- ***Sports results***
- ***Travel information***

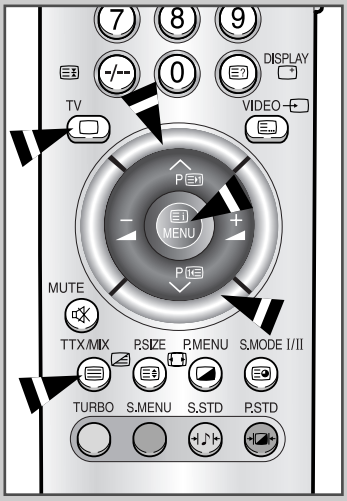
This information is divided into numbered pages (see diagram).

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information. FASTEXT information.

➢ Teletext information is often divided between several pages displayed in sequence, which can be accessed by:

- Entering the page number
- Selecting a title in a list
- Selecting a coloured heading (FASTEXT system)

Displaying the Teletext Information



You can display Teletext information at any time on your set.

☛ For Teletext information to be displayed correctly, channel reception must be stable; otherwise:
- Information may be missing
- Some pages may not be displayed

1 Select the channel providing the Teletext service by pressing the **P**∨ or **P**∧ button.

2 Press the **TTX/MIX** button to activate the teletext mode.

Result: The contents page is displayed. It can be redisplayed at any time by pressing the (index) button.

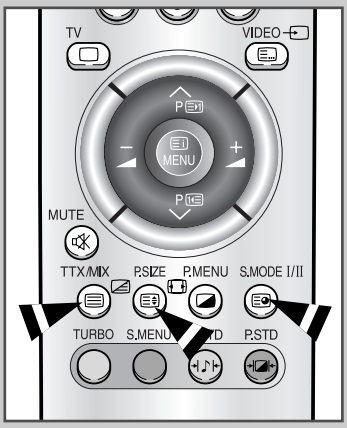
3 Press the **TTX/MIX** button again.

Result: The screen will be split into two. This Double Teletext feature lets you view the actual broadcast and teletext information separately on the screen.

4 If you wish to display the actual broadcast and teletext information on a single screen, press the **TTX/MIX** button again.

5 Press the **TV** button again to exit from the teletext display.

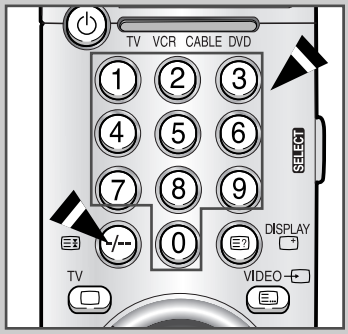
Selecting Display Options

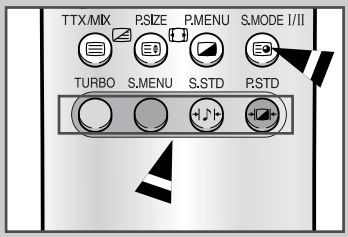


When you have displayed a Teletext page, you can select various options to suit your requirements.

To display...	Press the...
◆ Both teletext information and the normal broadcast	**TTX/MIX** twice
◆ Hidden text (answers to quiz games, for example)	(reveal)
◆ The normal screen	(reveal) again
◆ A secondary page, by entering its 4-digit number	
◆ Double-size letters in the: • Upper half of the screen • Lower half of the screen	 • Once • Twice
◆ Normal screen	• Three times

Selecting a Teletext Page





The various topics included in the teletext pages are colour-coded, and can be selected by pressing the coloured buttons on the remote control.

1 Enter the three-digit page number given in the content by pressing the corresponding numeric buttons.

Result: The current page counter is incremented and the page is then displayed.
If the selected page is linked with several secondary pages, the secondarypages are displayed in sequence.
To stop the given page acquisition press the ((hold) button. Press the ((hold) button again to resume.

2 If the FASTEXT system is used by the broadcasting company, the different topics covered on a Teletext page are colour-coded and can be selected by pressing the coloured buttons on the remote control. Press the coloured button corresponding to the topic that you wish to select; the available topics are given on the status line.

Result: The page is displayed with other colored information that can be selected in the same way.

3 To display the previous or next page, press the corresponding coloured button.

4 To display the subpage, press the button.

Result: The available subpages appear.

Troubleshooting: Before Contacting Service Personnel

Before contacting Samsung after-sales service, perform the following simple checks.
If you cannot solve the problem using the instructions below, note the model and serial number of your set and contact your local dealer.

No sound or picture	◆ Check that the mains lead has been connected to a wall socket. ◆ Check that you have pressed the **POWER** (⏻) button. ◆ Check the picture contrast and brightness settings. ◆ Check the volume.
Normal picture but no sound	◆ Check the volume. ◆ Check whether the **MUTE** button has been pressed on the remote control.
No picture or black and white picture	◆ Adjust the colour settings. ◆ Check that the broadcast system selected is correct.
Sound and picture interference	◆ Try to identify the electrical appliance that is affecting the set and move it further away. ◆ Plug your set into a different mains socket.
Blurred or snowy picture, distorted sound	◆ Check the direction, location and connections of your aerial. This interference is often due to the use of an indoor aerial.
Remote control malfunctions	◆ Replace the remote control batteries. ◆ Clean the upper edge of the remote control (transmission window). ◆ Check the battery terminals.
"Check Signal Cable" message is displayed.	◆ Check that the signal cable is firmly connected to the PC or video sources. ◆ Check that the PC or video sources are turned on.
On PC mode, "Not Supported Mode" message is displayed.	◆ Check the maximum resolution and the frequency of the video Adapter. ◆ Compare these values with the data in the Display Modes Timing Chart.
On PC mode, horizontal or vertical bars appear to flicker, jitter or shimmer on the image.	◆ Adjust the Coarse or Fine function.
On PC mode, screen is black and power indicator light is steady amber or blinks every 0.5 or 1 seconds	◆ The TV is using its power management system. ◆ Move the computer's mouse or press a key on the keyboard.
On PC mode, image is not stable and may appear to vibrate.	◆ Check that the display resolution and frequency from your computer or video board is an available mode for your set. On your computer check: Control Panel, Display, Settings. ◆ If the setting is not correct, use your computer utility programme to change the display settings. ➢ Your set supports multiscan display functions within the following frequency domain: **Horizontal frequency:** 30 ~ 60 kHz **Vertical frequency:** 56 ~ 75 Hz
On PC mode, image is not centered on the screen.	◆ Adjust the horizontal and vertical position.

PowerSaver

This set has a built-in power management system called PowerSaver. This system saves energy by switching your set into a low-power mode when it has not been used for a certain period of time. The available modes are "On", "Standby", "Sleep", and "Deep Sleep". PowerSaver operates with a VESA DPMS compliant video card installed in your computer. You use a software utility installed on your computer to set up this feature.

State	Normal Operation	Power-Saving Function mode (EPA/NUTEK)
Horizontal Sync	Active	Inactive
Vertical Sync	Active	Inactive
Power Indicator	Green	Green, Blinking (1 sec interval)
Power Consumption	LW29A13W : 150W (Max.) LW40A13W : 230W (Max.)	Less than 8W

➢ ***This set automatically returns to normal operation when horizontal and vertical sync return. This occurs when you move the computer's mouse or press a key on the keyboard.***

Technical and Environmental Specifications (continued)

Model	LW29A13W	LW40A13W
Panel		
Size	29” Diagonal	39.6” Diagonal
Display Size	631.68 (H) x 397.01 (V) mm	862.08 (H) x 517.24 (V) mm
Type	a-si TFT active matrix	
Pixel Pitch	0.4935 (H) x 0.4935 (V) mm	0.6735 (H) x 0.6735 (V) mm
Viewing Angle	85/85/85/85 (L/R/T/B)	
Frequency		
Horizontal	30 ~ 60 kHz	
Vertical	56 ~ 75 Hz	
Display Colour	16,777,216 colours	
Display Resolution		
Maximum Mode	1280 x 768 @ 60 Hz	
Input Signal		
Sync.	H/V Separate, TTL, P. or N.	
Video Signal	0.7 Vp-p @ 75 ohm	
TV/Video		
Colour System	PAL, SECAM, NTSC4.43	
Sound System	B/G, D/K, I, L,	
Video Format	CVBS, S-VHS	
Ext		
Video Input/Output	1.0 Vp-p @ 75 ohm	
RGB Input	0.7 Vp-p @ 75 ohm	
Audio Input/Output	500mVrms	
Colour system	PAL	
Power Supply		
Input	200 - 240 V~ (50/60Hz)	
Output	DC 28V/8A	
Power Consumption		
Maximum	150W	230 W
Power Saving	8W	
Dimension (W x H x D) / Weight		
Set	759.6 x 568.5 x 195 mm, 13.7 kg	1006 x 713 x 58 mm, 21.5 kg
Speaker L/R	570.5 x 130 x 155 mm, 2.4 kg	744 x 170 x 230 mm, 4.9 kg
Wall/Mount-kit(option)	727 x 400 x 94 mm, 4.9 kg	960 x 400 x 94 mm, 5.7 kg
Stand	-	956 x 33.4 x 300 mm, 5.6 kg
Environmental Considerations		
Operating Temperature	10 °C to 40 °C (50 °F to 104 °F)	
Operating Humidity	10% to 80%	
Storage Temperature	-25 °C to 45 °C (- 13 °F to 113 °F)	
Storage Humidity	5% to 95%	

Technical and Environmental Specifications

Model	LW29A13W	LW40A13W
Audio Characteristics		
Audio Input	RCA Jack (L, R), 0.5Vrms (-9dB)	
Audio Input (PC)	3.5Ø Stereo Jack, 0.5Vrms (-9dB)	
Audio Output	RCA Jack (L, R), 0.5Vrms (-9dB)	
Speaker Output	Max. 10W Output (3.5Ø Stereo Jack, 8Ω)	
Headphone Output	Max. 10mW Output (3.5Ø Stereo Jack, 32Ω)	
Frequency	RF: 80Hz ~ 15kHz (at- 3dB)	
Response	A/V: 80Hz ~ 20kHz (at- 3dB)	

Display Modes

If the signal from the system equals to the standard signal mode, the screen is adjusted automatically. If the signal from the system doesn't equal to the standard signal mode, adjust the mode with referring to the Video card user guide because the screen might not display or only the power LED might be on. For the display modes listed below, the screen image has been optimized during manufacture.

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
IBM	640 x 480	31.469	59.940	25.175	– / –
	640 x 480	35.000	66.667	30.240	– / –
VESA	640 x 480	37.861	72.809	31.500	– / –
	640 x 480	37.500	75.000	31.500	– / –
IBM	720 x 400	31.469	70.087	28.322	– / +
VESA	800 x 600	37.879	60.317	40.000	+ / +
	800 x 600	48.077	72.188	50.000	+ / +
	800 x 600	46.875	75.000	49.500	+ / +
IBM	832 x 624	49.726	74.551	57.284	– / –
VESA	1024 x 768	48.363	60.004	65.000	– / –
	1024 x 768	56.476	70.069	75.000	– / –
	1024 x 768	60.023	75.029	78.750	+ / +
GTF	1280 x 768	47.700	60.000	80.136	– / –

Wiring the Mains Power Supply Plug (UK Only)

◆ *IMPORTANT NOTICE*

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BSI1362 of the same rating must be used. Never use the plug with the fuse cover omitted if the cover is detachable.
If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer. If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance. However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

◆ *IMPORTANT*

The wires in the mains lead are coloured in accordance with the following code:

BLUE - NEUTRAL BROWN - LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:
The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL, WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL ⏚ , OR COLOURED GREEN OR GREEN AND YELLOW.

Memo

Memo

– AFTER SALES SERVICE

– Do not hesitate to contact your retailer or service agent if a change in the performance of your product indicates that a faulty condition may be present.

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